



A Preliminary Checklist of Angiosperm Flora at Katakhal Pouroshova of Rajshahi, Bangladesh

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Article History

Received: 13 September 2016

Accepted: 20 October 2016

Published: 1 November 2016

Citation

Ashit Kumar Sarker, Mahbubur Rahman AHM. A Preliminary Checklist of Angiosperm Flora at Katakhal Pouroshova of Rajshahi, Bangladesh. *Discovery*, 2016, 52(251), 2127-2140

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ABSTRACT

The present paper focuses on the qualitative assessment of angiosperm flora at Katakhal Pouroshova of Rajshahi district, Bangladesh conducted during July 2013 to April 2015. A total of 163 species belonging to 143 genera under 66 families were recorded. Magnoliopsida (Dicotyledones) is represented by 54 families, 119 genera and 138 species, whereas Liliopsida (Monocotyledones) by 12 families, 24 genera and 25 species. These comprise of 63 herbs, 49 trees, 31 shrubs, 19 climbers, 1 epiphyte belong to 66 families. Cucurbitaceae are the largest family in Magnoliopsida represented by 10 species and Amaranthaceae, Asteraceae, Fabaceae, Solanaceae are the largest family in Magnoliopsida represented by 7 species in each and

Liliopsida, Poaceae is the largest family with 7 species. Amaranthaceae, Asteraceae, Apocynaceae, Caesalpiniaceae, Convolvulaceae, Cucurbitaceae, Euphorbiaceae, Fabaceae, Moraceae, Malvaceae, Mimosaceae, Myrtaceae, Poaceae, Rutaceae and Solanaceae are the dominant families with high species diversity. For each species botanical name, local name, habit, voucher number and family were provided.

Keywords: Assessment, Angiosperm Flora, Katakali, Rajshahi, Bangladesh

1. INTRODUCTION

The flowering plants (angiosperms), also known as Angiospermae Lindl or Magnoliophyta, are the most diverse group of land plants. Angiosperms are seed-producing plants like the gymnosperms and can be distinguished from the gymnosperms by a series of synapomorphies (derived characteristics). These characteristics include flowers, endosperm within the seeds, and the production of fruits that contain the seeds. Etymologically, angiosperm means a plant that produces seeds within an enclosure; they are fruiting plants, although more commonly referred to as flowering plants. Angiosperms are seed-bearing vascular plants. Their reproductive structures are flowers in which the ovules are enclosed in an ovary. Angiosperms are found in almost every habitat from forests and grasslands to sea margins and deserts. Angiosperms display a huge variety of life forms including trees, herbs, submerged aquatics, bulbs and epiphytes. The largest plant families are Orchids, and Compositae (daisies) and Legumes (beans). There are an estimated 352,000 species of flowering plants or angiosperms. The ancestors of flowering plants diverged from gymnosperms around 245–202 million years ago, and the first flowering plants known to exist are from 160 million years ago. They diversified enormously during the Lower Cretaceous and became widespread around 120 million years ago, but replaced conifers as the dominant trees only around 60–100 million years ago (Lindley, 1830).

The importance of studying local floristic diversity has been realized and carried out in Bangladesh by Ara et al (2011), Khan and Halim (1987), Khan et al (1982), Khan and Afza (1968), Khan and Huq (2001), Khan and Banu (1972), Khan and Hassan (1984), Moniruzzaman et al (2012), Naderuzzaman and Tareque (1993), Rahman et al (2006, 2007a, 2007b, 2007c, 2008a, 2008b, 2011, 2013, 2014a, 2014b, 2014c), Rahman and Akter (2013), Rahman and Khanom (2013), Rahman (2013a, 2013b, 2013c, 2014d, 2013e, 2013f, 2013g, 2014), Rahman and Gulshana (2014), Rahman and Parvin (2014), Rahman and Rahman (2014), Rahman and Rojonigondha (2014), Rahman and Uddin (1997), Rahman and Alam (2013), Rahman et al (2013, 2010) and Rahman and Hassan (1995). The present study was made an assessment of angiosperm flora at Katakali Pouroshova of Rajshahi district, Bangladesh.

2. MATERIALS AND METHODS

Investigation of angiosperm flora at Katakali Pouroshova of Rajshahi, Bangladesh was carried out from July 2013 to April 2015. A total of 163 species belonging to 143 genera under 66 families were collected and identified. A survey on the determination of the location of different species was made and a list was prepared to be acquainted with the plants available in the selected area. All the species were noted and time to time the areas were visited to see when they flowered. For the morphological study, different types of species were examined again and again in order to see if there was any variation or not. They were collected at flowering stages and herbarium specimens were prepared as vouchers. In this practice standard method was followed. In this regard different types of plant species were collected from different habitats. All the collected plant specimens were kept in the Herbarium, Department of Botany, and University of Rajshahi, Bangladesh. The major collected materials were identified and described up to species with the help of Hooker (1961), Prain (1963), Kirtikar and Basu (1987), Davis and Heywood (1963), Lawrence (1973), Bhattacharyya and Johri (1998), Ahmad et al (2008-2009) were consulted. For the current name and up-to-date nomenclature Huq (1986) and Pasha and Uddin (2013) were also consulted.

3. RESULTS AND DISCUSSION

The present thesis focuses on the qualitative assessment of angiosperm flora at the Katakali pouroshova under Paba upazila of Rajshahi district, Bangladesh conducted during July 2013 to April 2015. A total of 163 species belonging to 143 genera under 66 families were recorded. Magnoliopsida (Dicotyledones) is represented by 54 families, 119 genera and 138 species, whereas Liliopsida (Monocotyledones) by 12 families, 24 genera and 25 species. These comprise of 63 herbs, 49 trees, 31 shrubs, 19 climbers, 1 epiphyte belong to 66 families. Cucurbitaceae are the largest family in Magnoliopsida represented by 10 species and Amaranthaceae, Asteraceae, Fabaceae, Solanaceae are the largest family in Magnoliopsida represented by 7 species in each and Liliopsida, Poaceae is the largest family with 7 species (Table 1, 2). Amaranthaceae, Asteraceae, Apocynaceae, Caesalpiniaceae, Convolvulaceae, Cucurbitaceae, Euphorbiaceae, Fabaceae, Moraceae, Malvaceae, Mimosaceae, Myrtaceae, Poaceae, Rutaceae and Solanaceae are the dominant families with high species diversity. For each species botanical name, local name, habit, voucher

number and family were provided. Of 163 species recorded here, herbs are represented by 63 (38.65%), trees by 49 (30.06%), shrubs by 31 (19.02%), climber by 19 (11.66%) and epiphyte by 1 (0.61%) species (Figure 1).

Based on this study, a preliminary list of angiosperm flora at the Katakali pouroushova of Rajshahi district, Bangladesh was made that includes 163 angiosperm species under 66 families (Table 1). The collected information is comparable with the result of other studies in Bangladesh. A total of 243 species belonging to 195 genera under 95 families were recorded in Khagrachhari district (Islam et al., 2009). A total of 245 species belonged to 183 genera and 72 families are documented in Habiganj district (Arefin et al., 2011). A total of 425 species belonging to 321 genera 108 families are recorded in Rajshahi district (Rahman, 2013). A total of 302 species belonging to 243 genera 84 families are recorded in Bangladesh Police Academy, Rajshahi (Rahman et al., 2014). A total of 239 species belonging to 198 genera under 83 families were recorded in Naogaon, Bangladesh (Nahar and Rahman, 2016). No published information recorded on the diversity of angiosperm plant species at the Katakali Pouroushova of Rajshahi district, Bangladesh. Distribution of angiosperm species in the families shows variation. The family Cucurbitaceae is represented by 10 species. The family Amaranthaceae, Asteraceae, Fabaceae, Solanaceae and Poaceae is represented by 7 species in each. Each of Moraceae, Euphorbiaceae, Rutaceae, Apocynaceae, and Convolvulaceae is represented by 5 species. A single species in each was recorded by 31 families while two to four species in each was recorded by 24 families (Table 1).

Table 1 Showing the families of the plant species recorded (Cronquist, 1981)

SL.No.	Family	No. of Herb species	No. of Shrub species	No. of Climber species	No. of Tree species
1	Annonaceae	-	-	-	2
2	Piperaceae	1	-	-	-
3	Nymphaeaceae	1	-	-	-
4	Papaveraceae	1	-	-	-
5	Moraceae	-	-	-	5
6	Nyctaginaceae	2	-	-	-
7	Amaranthaceae	7	-	-	-
8	Basellaceae	1	-	-	-
9	Molluginaceae	1	-	-	-
10	Polygonaceae	1	-	-	-
11	Tiliaceae	-	2	-	-
12	Sterculiaceae	-	-	-	1
13	Bombacaceae	-	-	-	1
14	Malvaceae	2	1	-	-
15	Caricaceae	-	1	-	-
16	Cucurbitaceae	-	-	10	-
17	Brassicaceae	2	-	-	-
18	Moringaceae	-	-	-	1

19	Sapotaceae	-	-	-	2
20	Ebenaceae	-	-	-	2
21	Crassulaceae	1	-	-	-
22	Rosaceae	-	1	-	-
23	Mimosaceae	1	-	-	3
24	Caesalpiniaceae	-	-	-	4
25	Fabaceae	3	1	2	1
26	Lythraceae	-	1	-	1
27	Myrtaceae	-	-	-	3
28	Punicaceae	-	-	-	1
29	Onagraceae	1	-	-	-
30	Combretaceae	-	-	1	2
31	Loranthaceae	-	1	-	-
32	Euphorbiaceae	2	2	-	1
33	Rhamnaceae	-	-	-	1
34	Sapindaceae	-	-	-	1
35	Anacardiaceae	-	-	-	3
36	Meliaceae	-	-	-	2
37	Rutaceae	-	2	-	3
38	Oxalidaceae	-	-	-	1
39	Balsaminaceae	1	-	-	-
40	Apiaceae	2	-	-	-
41	Apocynaceae	2	2	-	1
42	Asclepiadaceae	-	1	-	-
43	Solanaceae	5	2	-	-
44	Convolvulaceae	-	1	4	-
45	Cuscutaceae	-	-	1	-
46	Boraginaceae	1	-	-	-
47	Verbenaceae	-	2	-	1

48	Lamiaceae	2	1	-	-
49	Plantaginaceae	-	1	-	-
50	Eaceae				
51	Acanthaceae	1	2	-	-
52	Pedaliaceae	1	-	-	-
53	Rubiaceae		3	-	1
54	Asteraceae	4	2	1	-
55	Arecaceae	-	-	-	4
56	Araceae	3	-	-	-
57	Lemnaceae	1	-	-	-
58	Cyperaceae	1	-	-	-
59	Commelinaceae	1	-	-	-
60	Poaceae	4	2	-	1
61	Musaceae	-	1	-	-
62	Zingiberaceae	2	-	-	-
63	Cannaceae	1	-	-	-
64	Pontederiaceae	1	-	-	-
65	Liliaceae	2	-	1	-
66	Aloeaceae	1	-	-	-

Table 2 Assessment of Angiosperm Flora at Katakali Pouroshova of Rajshahi, Bangladesh

Sl. No.	Botanical name	Local name	Family	Habit	Voucher number
1	<i>Abelmoschus esculentus</i> L.	Dherosh	Malvaceae	Herb	AKS 06
2	<i>Abroma augusta</i> (L.) L. f.	Ulat kambal	Sterculiaceae	Tree	AKS 110
3	<i>Acacia auriculiformis</i> Benth.	Akashmoni	Fabaceae	Tree	AKS 111
4	<i>Acacia nilotica</i> (L.) Del.	Babla	Mimosaceae	Tree	AKS 28
5	<i>Acalypha indica</i> L.	Muktajhuri	Euphorbiaceae	Herb	AKS 122

6	<i>Adhatoda vasica</i> Nees.	Basak	Acanthaceae	Shrub	AKS 44
7	<i>Aegle marmelos</i> (L.) Correa	Bel	Rutaceae	Tree	AKS 147
8	<i>Albizia procera</i> Benth.	Koroi	Mimosaceae	Tree	AKS 134
9	<i>Allium cepa</i> L.	Piyaj	Liliaceae	Herb	AKS 132
10	<i>Allium sativum</i> L.	Rosun	Liliaceae	Herb	AKS 80
11	<i>Alocasia indica</i> (Roxb.) Schott.	Mankachu	Araceae	Herb	AKS 114
12	<i>Aloe vera</i> (L) Burm. f.	Gritakumari	Aloeaceae	Herb	AKS 150
13	<i>Alstonia scholaris</i> (L.) R. Br.	Chatim	Apocynaceae	Tree	AKS 65
14	<i>Alternanthera philoxeroides</i> (Mart.) Griseb.	Helencha	Amaranthaceae	Herb	AKS 102
15	<i>Alternanthera sessilis</i> (L.) DC.	Chanshi	Amaranthaceae	Herb	AKS 85
16	<i>Amaranthus dubius</i> Mart. ex Thell.	Gobranotey	Amaranthaceae	Herb	AKS 53
17	<i>Amaranthus spinosus</i> L.	Kantanotey	Amaranthaceae	Herb	AKS 47
18	<i>Amaranthus tricolor</i> L.	Lalshak	Amaranthaceae	Herb	AKS 13
19	<i>Amaranthus viridis</i> L	Gaikhura	Amaranthaceae	Herb	AKS 132
20	<i>Andrographis paniculata</i> Wall ex Nees	Kalomegh	Acanthaceae	Herb	AKS 145
21	<i>Annona squamosa</i> Linn.	Aata	Annonaceae	Tree	AKS 79
22	<i>Anthocephalus chinensis</i> (Lamk.) Rich.	Kodom	Rubiaceae	Tree	AKS 140
23	<i>Areca catechu</i> L.	Supari	Arecaceae	Tree	AKS 71
24	<i>Argemone maxicana</i> L.	Shialkanta	Papaveraceae	Herb	AKS 60
25	<i>Artocarpus heterophyllus</i> Lamk.	Kathal	Moraceae	Tree	AKS 90
26	<i>Averrhoa carambola</i> L.	Kamranga	Oxalidaceae	Tree	AKS 15
27	<i>Bambusa balcooa</i> Roxb.	Bash	Poaceae	Shrub	AKS 151
28	<i>Basella alba</i> L.	Puishak.	Basellaceae	Climber	AKS 12
29	<i>Bauhinia acuminata</i> L.	Kanchan	Caesalpiniaceae	Tree	AKS 118
30	<i>Benincasa hispida</i> (Thunb.) Cogn.	Chalkumra	Cucurbitaceae	Climber	AKS 67
31	<i>Boerhaavia diffusa</i> L		Nyctaginaceae	Climber	AKS 132
32	<i>Bombax ceiba</i> L.	Simul	Bombacaceae	Tree	AKS 145
33	<i>Borassus flabellifer</i> L.	Tal	Arecaceae	Tree	AKS 103

34	<i>Brassica napus</i> L.	Sorisha	Brassicaceae	Herb	AKS 03
35	<i>Bryophyllum pinnatum</i> (Lam.) Oken	Pathorkuchi	Crassulaceae	Herb	AKS 75
36	<i>Butea monosperma</i> (Lam.) Taub.	Palas	Fabaceae	Tree	AKS 76
37	<i>Cajanus cajan</i> (L.) Huth.	Arhor daal	Fabaceae	Shrub	AKS 126
38	<i>Calotropis procera</i> R.Br.	Akondo	Asclepiadaceae	Shrub	AKS 81
39	<i>Canna indica</i> L.	Kolabati	Cannaceae	Herb	AKS 129
40	<i>Capsicum frutescens</i> L.	Morich	Solanaceae	Herb	AKS 121
41	<i>Carica papaya</i> L.	Pepe	Caricaceae	Tree	AKS 83
42	<i>Carissa carandus</i> L.	Karamcha	Apocynaceae	Shrub	AKS 82
43	<i>Cassia fistula</i> L.	Badarlathi	Caeslpiaceae	Tree	AKS 11
44	<i>Catharanthus roseus</i> L.	Nayantara	Apocynaceae	Herb	AKS 157
45	<i>Celosia argentea</i> L.	Morogphul	Amaranthaceae	Herb	AKS 36
46	<i>Centella asiatica</i> (L.) Urban	Thankuni	Apiaceae	Herb	AKS 39
47	<i>Cestrum nocturnum</i> L.	Hasnahena	Solanaceae	Shrub	AKS 32
48	<i>Chrysanthamum coronarium</i> L.	Chandra mollica	Asteraceae	Shrub	AKS 144
49	<i>Citrus aurantifolia</i> Sw.	Kagochi lebu	Rutaceae	Shrub	AKS 91
50	<i>Citrus grandis</i> (L.) Osbeck.	Jambura	Rutaceae	Tree	AKS 09
51	<i>Clerodendrum viscosum</i> Vent.	Bhat	Verbenaceae	Shrub	AKS 124
52	<i>Coccinia cordifolia</i> (L.) Cogn.	Telakucha	Cucurbitaceae	Climber	AKS 30
53	<i>Cocos nucifera</i> L.	Narikel	Arecaceae	Tree	AKS 97
54	<i>Colocasia esculenta</i> (L.) Schott.	Kochu	Araceae	Herb	AKS 86
55	<i>Commelina benghalensis</i> L.	Kanshira	Commelinaceae	Herb	AKS 55
56	<i>Corchorus capsularis</i> L.	Deshipat	Tiliaceae	Shrub	AKS 106
57	<i>Coriandrum sativum</i> L.	Dhania	Apiaceae	Herb	AKS 21
58	<i>Croton bonplandianum</i> Bail.	Croton	Euphorbiaceae	Shrub	AKS 135
59	<i>Crysopogon aciculatus</i> (Retz.) Trin.	Premkanta	Poaceae	Herb	AKS 69
60	<i>Cucumis melo</i> L.	Bangi	Cucurbitaceae	Herb	AKS 68
61	<i>Cucumis sativus</i> L.	Sasha	Cucurbitaceae	Climber	AKS 100
62	<i>Cucurbita lagenaria</i> L.	Lau	Cucurbitaceae	Climber	AKS 54

63	<i>Cucurbita maxima</i> Duch. ex Lamk.	Mistikumra	Cucurbitaceae	Climber	AKS 04
64	<i>Curcuma longa</i> L.	Holud	Zingiberaceae	Herb	AKS 42
65	<i>Cuscuta reflexa</i> Roxb.	Sarnalata	Cuscutaceae	Climber	AKS 56
66	<i>Cynodon dactylon</i> Pers.	Durbaghas	Poaceae	Herb	AKS 154
67	<i>Dalbergia sissoo</i> Roxb.ex DC.	Sishu	Fabaceae	Tree	AKS 41
68	<i>Datura metel</i> L.	Dhutra	Solanaceae	Shrub	AKS 64
69	<i>Delonix regia</i> (Boj.) Raf.	Krisnachura	Caesalpiniaceae	Tree	AKS 49
70	<i>Dendrophthoe falcate</i> (L.f.) Ett.	Not known	Loranthaceae	Herb	AKS 89
71	<i>Dyospyros perigrina</i> (Gaertn.) Gur.	Gab	Ebenaceae	Tree	AKS 38
72	<i>Dyospyros philippensis</i> (Des.) Gam.	Bilatigab	Ebenaceae	Tree	AKS 27
73	<i>Eichhornia crassipes</i> (Mart.) Sol. –Lau.	Kochuri pana	Pontedariaceae	Herb	AKS 87
74	<i>Erythrina variegata</i> L.	Mother	Fabaceae	Herb	AKS 112
75	<i>Euphorbia hirta</i> L.	Dudhiya	Euphorbiaceae	Herb	AKS 70
76	<i>Feronia limonia</i> (L.) Sw.	Kothbel	Rutaceae	Tree	AKS 61
77	<i>Ficus benghalensis</i> L.	Bot	Moraceae	Tree	AKS 37
78	<i>Ficus hispida</i> L. f.	Khoksha dumur	Moraceae	Tree	AKS 48
79	<i>Ficus racemosa</i> L.	Dumur	Moraceae	Tree	AKS 31
80	<i>Ficus religiosa</i> L.	Pakur	Moraceae	Tree	AKS 20
81	<i>Glinus oppositifolius</i> (L.) A. DC.	Gima shak	Molluginaceae	Herb	AKS 127
82	<i>Helianthus annuus</i> L.	Surjomukhi	Asteraceae	Shrub	AKS 29
83	<i>Heliotropium indicum</i> L.	Hatishur	Boraginaceae	Herb	AKS 19
84	<i>Hibiscus rosa-sinensis</i> L.	Joba	Malvaceae	Shrub	AKS 104
85	<i>Impatiens balsamina</i> L.	Dopati	Balsaminaceae	Herb	AKS 119
86	<i>Ipomoea aquatica</i> L.	Kalmishak	Convolvulaceae	Climber	AKS 156
87	<i>Ipomoea batatas</i> L.	Mistialu	Convolvulaceae	Climber	AKS 116
88	<i>Ipomoea fistulosa</i> Mart.	Dholkalmi	Convolvulaceae	Shrub	AKS 14
89	<i>Ipomoea quamoclit</i> L.	Gatephul	Convolvulaceae	Climber	AKS 161
90	<i>Ixora coccinea</i> L.	Rangan	Rubiaceae	Shrub	AKS 98
91	<i>Jasminum sambac</i> (L.) Ait.	Beli	Oleaceae	Shrub	AKS 40

92	<i>Justicia gendarussa</i> L.	Jagthmadan	Acanthaceae	Shrub	AKS 05
93	<i>Lablab purpureus</i> (L.) Sweet.	Sim	Fabaceae	Climber	AKS 51
94	<i>Lannea coromandelica</i> (Houtt.) Merr.	Jiga	Anacardiaceae	Tree	AKS 105
95	<i>Lawsonia inermis</i> L.	Mehedi	Lythraceae	Shrub	AKS 26
96	<i>Lemna perpusila</i> Torrey	Khudipana	Lemnaceae	Herb	AKS 160
97	<i>Lens esculenta</i> Moench.	Masur	Fabaceae	Herb	AKS 136
98	<i>Leonurus sibiricus</i> L.	Roktodron	Lamiaceae	Herb	AKS 18
99	<i>Leucas aspera</i> (Willd.) Link.	Setodron	Lamiaceae	Herb	AKS 120
100	<i>Litchi chinensis</i> Sonn.	Lichu	Sapindaceae	Tree	AKS 35
101	<i>Ludwigia adscendens</i> (L.) Hara.	Kesordam	Onagraceae	Herb	AKS 108
102	<i>Luffa acutangula</i> (L.) Roxb.	Jhinga	Cucurbitaceae	Climber	AKS 46
103	<i>Lycopersicon lycopersicum</i> (L.) Karst.	Tomato	Solanaceae	Herb	AKS 99
104	<i>Mangifera indica</i> L.	Am	Anacardiaceae	Tree	AKS 153
105	<i>Manilkara achras</i> (Mill.)	Sofeda	Sapotaceae	Tree	AKS 162
106	<i>Melia azadirachta</i> L.			Tree	AKS 02
107	<i>Mikania cordata</i> (Burm.f.) Roxb	Asamlata	Asteraceae	Climber	AKS 23
108	<i>Mimosa pudica</i> L.	Lajjabati	Mimosaceae	Climber	AKS 123
109	<i>Mimuspos elengi</i> L.	Bokul	Sapotaceae	Tree	AKS 16
110	<i>Mirabilis jalapa</i> L.	Sandhamoni	Nyctaginaceae	Herb	AKS 101
111	<i>Momordica charantia</i> L.	Korola	Cucurbitaceae	Climber	AKS 130
112	<i>Moringa oleifera</i> Lam.	Sajna	Moringaceae	Tree	AKS 138
113	<i>Murraya paniculata</i> (L.) Jack	Kamini	Rutaceae	Shrub	AKS 155
114	<i>Musa paradisiaca</i> L.	Kala	Musaceae	Shrub	AKS 139
115	<i>Nerium indicum</i> Mill.	Kobori	Apocynaceae	Herb	AKS 62
116	<i>Nicotiana plumbaginifolia</i> Viv.	Bontamak	Solanaceae	Herb	AKS 92
117	<i>Nyctanthes arbor-tristis</i> L.	Shefali	Oleaceae	Shrub	AKS 152
118	<i>Nymphaea nouchali</i> Burm.f.	Shapla	Nymphaeaceae	Herb	AKS 93
119	<i>Ocimum sanctum</i> L.	Tulsi	Lamiaceae	Shrub	AKS 58
120	<i>Oryza sativa</i> L.	Dhan	Poaceae	Herb	AKS 109

121	<i>Oxalis corniculata</i> L.	Amrul	Oxalidaceae	Herb	AKS 08
122	<i>Paederia foetida</i> L.	Gandhavaduli	Rubiaceae	Shrub	AKS 142
123	<i>Peperomia pellucida</i> Kunth.	Peperomia	Piperaceae	Herb	AKS 94
124	<i>Phoenix sylvestris</i> (L.) Roxb.	Khejur	Arecaceae	Tree	AKS 131
125	<i>Phyllanthus emblica</i> L.	Amloki	Euphorbiaceae	Tree	AKS 141
126	<i>Pistia stratiotes</i> L.	Topapana	Araceae	Herb	AKS 143
127	<i>Polyalthia longifolia</i> Benth & Hook	Raganigandha	Annonaceae	Herb	AKS 78
128	<i>Polygonum hydropiper</i> L.	Panimorich	Polygonaceae	Herb	AKS 159
129	<i>Psidium guajava</i> (L.) Bat.	Piyara	Myrtaceae	Tree	AKS 148
130	<i>Punica granatum</i> L.	Dalim	Punicaceae	Tree	AKS 158
131	<i>Quisqualis indica</i> L.	Madhabilata	Combretaceae	Shrub	AKS 50
132	<i>Raphanus sativus</i> L.	Mulashak	Brassicaceae	Herb	AKS 146
133	<i>Rauvolfia serpentina</i> Benth.	Sarpagandha	Apocynaceae	Herb	AKS 107
134	<i>Ricinus communis</i> L.	Bherenda	Euphorbiaceae	Shrub	AKS 43
135	<i>Rosa centifolia</i> L.	Golap	Rosaceae	Shrub	AKS 01
136	<i>Saccharum officinarum</i> L.	Akh	Poaceae	Shrub	AKS 74
137	<i>Scirpus articulatus</i> (L.) Palla.	Chechur	Cyperaceae	Herb	AKS 17
138	<i>Scoparia dulcis</i> L.	Bondone	Plantaginaceae	Herb	AKS 73
139	<i>Sesamum indicum</i> L.	Til	Pedaliaceae	Herb	AKS 22
140	<i>Sida cordifolia</i> L.	Berela	Malvaceae	Herb	AKS 125
141	<i>Solanum melongena</i> Wall.	Begun	Solanaceae	Shrub	AKS 52
142	<i>Solanum nigrum</i> L.	Titbegun	Solanaceae	Shrub	AKS 72
143	<i>Solanum tuberosum</i> L.	Gol alu	Solanaceae	Herb	AKS 137
144	<i>Spondias pinnata</i> (L.f.) Kurz.	Aamra	Anacardiaceae	Tree	AKS 59
145	<i>Swietenia mahagoni</i> (L.) Jacq.	Mahagoni	Meliaceae	Tree	AKS 66
146	<i>Syzygium cumini</i> (L.) Skeel.	Jam	Myrtaceae	Tree	AKS 84
147	<i>Syzygium samarangense</i> (Bl.) Merr. & Perry.	Jamrul	Myrtaceae	Tree	AKS 149
148	<i>Tagetes erecta</i> L.	Gadaphul	Asteraceae	Herb	AKS 133
149	<i>Tamarindus indica</i> L.	Tentul	Caesalpiniaceae	Tree	AKS 96

150	<i>Terminalia arjuna</i> (Roxb.) Wt. & Arn.	Arjun	Combretaceae	Tree	AKS 45
151	<i>Terminalia chebula</i> L.	Haritaki	Combretaceae	Tree	AKS 07
152	<i>Trichosanthes anguin</i> L.	Dudhkushi	Cucurbitaceae	Climber	AKS 25
153	<i>Trichosanthes dioica</i> Roxb.	Potol	Cucurbitaceae	Climber	AKS 33
154	<i>Tridax procumbens</i> L.	Tridhara	Asteraceae	Herb	AKS 10
155	<i>Triticum aestivum</i> L.	Gom	Poaceae	Herb	AKS 14
156	<i>Vigna mungo</i> (L.) Hepper	Mashkalai	Fabaceae	Herb	AKS 95
157	<i>Vigna sinensis</i> (L.) Savi ex Hassk.	Borboti	Fabaceae	Climber	AKS 57
158	<i>Vitex negundo</i> L.	Nisinda	Verbenaceae	Shrub	AKS 147
159	<i>Wedelia chinensis</i> (Osbeck) Merr.	Mohavringaraj	Asteraceae	Herb	AKS 113
160	<i>Xanthium indicum</i> J. Koenig ex Roxb.	Hagra	Asteraceae	Herb	AKS 117
161	<i>Zea mays</i> L.	Vutta	Poaceae	Shrub	AKS 77
162	<i>Zingiber officinale</i> Roscoe.	Ada	Zingiberaceae	Herb	AKS 128
163	<i>Zizyphus mauritiana</i> Lamk.	Boroi	Rhamnaceae	Tree	AKS 113

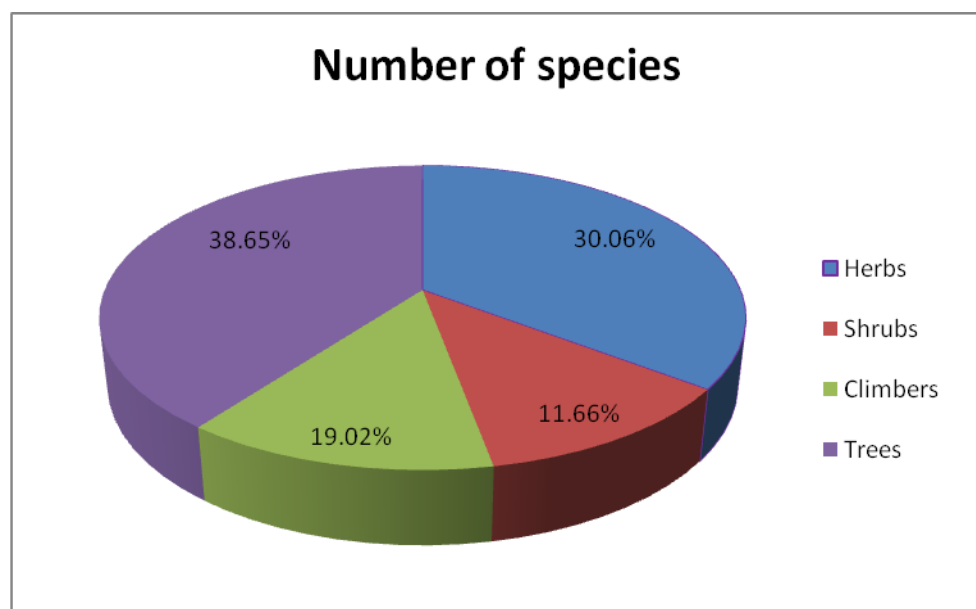
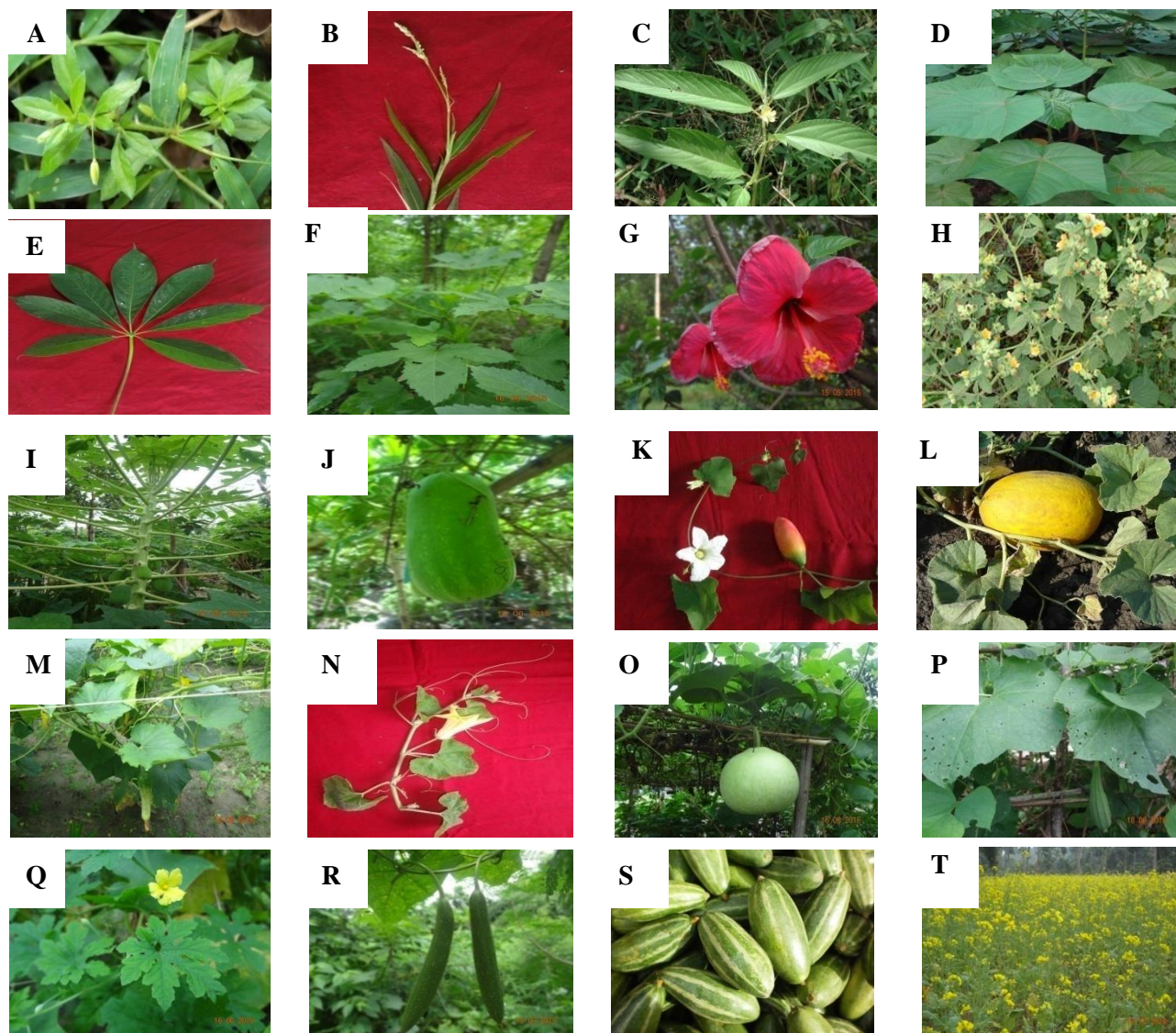


Figure 1 Analysis of data based on habit showed the Angiosperm Flora.

PHOTOGRAPHS OF IMPORTANT ANGIOSPERM SPECIES



A. *Glinus oppositifolius* (L.) A. DC. B. *Polygonum hydropiper* L. C. *Corchorus capsularis* L. D. *Abroma augustum* (L.) L. f. E. *Bombax ceiba* L. F. *Abelmoschus esculentus* L. G. *Hibiscus rosa-sinensis* L. H. *Sida cordifolia* L. I. *Carica papaya* L. J. *Benincasa hispida* (Thunb.) Cogn. K. *Coccinia cordifolia* (L.) Cogn. L. *Cucumis melo* L. M. *Cucumis sativus* L. N. *Cucurbita maxima* Duch. ex Lamk. O. *Cucurbita lagenaria* L. P. *Luffa acutangula* (L.) Roxb. Q. *Momordica charantia* L. R. *Trichosanthes anguina* L. S. *Trichosanthes dioica* Roxb. T. *Brassica napus* L.

ACKNOWLEDGEMENTS

The authors are grateful to the local people at Ktakhali Pouroshova of Rajshahi district, Bangladesh for their co-operation and help during the research work.

REFERENCE

1. Ahmed, Z. U., Begum, Z. N. T., Hassan, M. A., Khondker, M., Kabir, S. M. H., Ahmad, M., Ahmed, A. T. A., Rahman, A. K. A. and Haque, E. U.(Eds). 2008-2009. Encyclopedia of Flora and Fauna of Bangladesh. Vols. 6-10. Angiosperms; Asiat. Soc. Bangladesh, Dhaka..
2. Ara, T., Khokan, E. H. and Rahman, A.H.M.M. 2011.Taxonomic Studies on the Family Solanaceae in the

- Rajshahi University Campus. *Journal of Biodiversity and Environmental Sciences*.4(1):29-34.
3. Arefin, M.K., Rahman, M.M., Uddin, M.Z. and Hassan, M.A. 2011. Angiosperm Flora of Satchari National Park, Habiganj, Bangladesh. *Bangladesh J. Plant Taxon.* 18(2): 117-140.
 4. Bhattacharyya, B. and Johri, B. M. 1998. *Flowering Plants Taxonomy and Phylogeny*. Prokas Publishers, Calcutta, India.
 5. Cronquist, A. 1981. *An Integrated System of Classification of Flowering Plants*. Columbia University Press. New York.
 6. Davis, P.H. and Heywood, V.H. 1963. *Principles of Angiosperm Taxonomy*. Robert E. Krieger Publishing Company, Huntington, New York.
 7. Hooker, J. D. 1961. *Flora of British India*. Vols.1-7. L. Reeve and Co. Ltd. London, U.K.
 8. Huq, A.M. 1986. *Plant Names of Bangladesh*. Bangladesh National Herbarium, BARC, Dhaka, Bangladesh.
 9. Islam, M.R., Uddin, M.Z. and Hassan, M.A. 2009. An Assessment of the Angiosperm Flora of Ramgarh Upazilla of Khagrachhari District, Bangladesh. *Bangladesh J. Plant Taxon.* 16(2): 115-140.
 10. Khan, M.S. and Halim, M. 1987. *Aquatic Angiosperms of Bangladesh*. Bangladesh National Herbarium, BARC, Dhaka.
 11. Khan, M.S., Hassan, M.A. and Huq, A.M. 1982. A taxonomic report on the Angiospermic wall Flora of Dhaka city. *Dhaka Univer. Stud. B.* 30(2):131-143.
 12. Khan, M.S., Hassan, M. A., Huq, A.M. and Rahman, M. 1984. Taxonomic report of the Angiospermic Flora of St. Martin's Island. *Dac. Univ. Stud. B.* 30 (1): 71-84.
 13. Khan, M.S. and Afza, S.K. 1968. A taxonomic report on the angiospermic flora of Teknaf and St. Martin's Island. *Dhaka Univ. Studies, Part B.* 16: 35-37.
 14. Khan, M.S. and Huq, A.M. 2001. The vascular flora of Chunati Wildlife Sanctuary in south Chittagong, Bangladesh. *Bangladesh J. Plant Taxon.* 8(1): 47-64.
 15. Khan, M.S. and Banu, F. 1972. A taxonomic report on the angiospermic flora of Chittagong Hill Tracts-2. *J. Asiat. Soc. Bangladesh.* 17(2): 63-68.
 16. Khan, M.S. and Hassan, M.A. 1984. A taxonomic report on the angiospermic flora of St.
 17. Martin's Island. *Dhaka Univ. Studies, Part B.* 32(1): 76-78.
 18. Kirtikar, K.R. and Basu, B.D. 1987. *Indian Medicinal Plants*. Vols. 1-4. Lalit Mohan Basu, Allahabad, Jayyed Press, New Delhi, India.
 19. Lawrence, G.H.M. 1973. *Taxonomy of Vascular Plants*. Oxford and IBM Publishing Co., Rakes Press, New Delhi, India.
 20. Lindley, J. 1830. *Introduction to the Natural System of Botany*. Longman. London, UK.
 21. Moniruzzaman, M., Hassan, M.A., Rahman, M.M., Layla, S. and Islam, M.R. 2012. A Preliminary Checklist of the Angiospermic Flora of Daulatpur Upazilla in Kushtia District, Bangladesh. *J. Asiat. Soc. Bangladesh, Sci.* 38(1): 53-65.
 22. Naderuzzaman, A.T.M. and M. Tareque, M. 1993. Study on the weed flora of Rajshahi, Bangladesh. *The Rajshahi University Studies, Part- B,* 21:75-88.
 23. Nahar, J. and Rahman, A.H.M.M. 2016. Study of Angiosperm Plant Species at Sadar Upazila of Naogaon District, Bangladesh. *Discovery.* 52(250): 1963-1978.
 24. Pasha, M. K. and Uddin, S. B. 2013. *Dictionary of Plant Names of Bangladesh (Vascular Plants)*. Janokalyan Prokashani. Chittagong, Dhaka, Bangladesh.
 25. Prain, D. 1963. *Bengal Plants*. Vols.1-2. Botanical Survey of India. Calcutta, India.
 26. Rahman, A.H.M.M., Anisuzzaman, M., Alam, M. Z., Islam, A. K. M. R. and Zaman, A. T. M. N. 2006. Taxonomic Studies of the Cucurbits Grown in the Northern Parts of Bangladesh. *Research Journal of Agriculture and Biological Sciences.* 2(6):299-302.
 27. Rahman, A.H.M.M., Islam A. K. M. R., Naderuzzaman, A. T. M., Hossain, M. D. and Afza, R. 2007a. Studies on the Aquatic Angiosperms of the Rajshahi University Campus. *Research Journal of Agriculture and Biological Sciences.* 3(5): 474-480.
 28. Rahman, A.H.M.M., Islam, A. K. M. R. and Naderuzzaman, A. T. M. 2007b. Studies on the herbaceous plant species in the graveyard areas of Rajshahi city. *Plant Environment Development.* 1(1): 57-60.
 29. Rahman, A.H.M.M., Anisuzzaman, M., Ahmed, F., Zaman, A.T.M.N. and Islam, A.K.M.R. 2007c. A Floristic Study in the Graveyards of Rajshahi City. *Research Journal of Agriculture and Biological Sciences.* 3(6): 670-675.
 30. Rahman, A.H.M.M., Alam, M. S., Khan, S. K., Ahmed, F., Islam, A. K. M. R. and Rahman, M. M. 2008a. Taxonomic Studies on the family Asteraceae (Compositae) of the Rajshahi Division. *Research Journal of Agriculture and Biological Sciences.* 4(2):134-140.
 31. Rahman, A.H.M.M., Alam, M. S., Hossain, M. B., Nesa, M. N., Islam, A. K. M. R. and Rahman M M. 2008b. Study of Species Diversity on the family Asteraceae (Compositae) of the Rajshahi Division. *Research Journal of Agriculture and Biological Sciences.* 4(6): 794-797.
 32. Rahman, A.H.M.M., Islam, A.K.M.R. and Rahman, M.A.. 2011. The Family Asteraceae of Rajshahi Division, Bangladesh. *VDM Verlag Dr. Muller e.k. Publishers, Germany.*
 33. Rahman, A.H.M.M. 2013a. A Checklist of Common Angiosperm Weeds of Rajshahi District, Bangladesh. *International Journal of Agricultural and Soil Science.* 1 (1): 1-6.
 34. Rahman, A.H.M.M. 2013b. Assessment of Angiosperm Weeds of Rajshahi, Bangladesh with emphasis on medicinal plants. *Research in Plant Sciences.* 1 (3): 62-67.

35. Rahman, A.H.M.M. 2013c. Angiospermic flora of Rajshahi district, Bangladesh. *American Journal of Life Sciences*.1 (3): 105-112.
36. Rahman, A.H.M.M. 2013d. Graveyards angiosperm diversity of Rajshahi city, Bangladesh with emphasis on medicinal plants. *American Journal of Life Sciences*.1 (3): 98-104.
37. Rahman, A.H.M.M. 2013e. Study of Species Diversity on Cucurbitaceae family at Rajshahi Division, Bangladesh. *Journal of Plant Sciences*.1 (2): 18-21.
38. Rahman, A.H.M.M. 2013f. Systematic studies on Asteraceae in the northern region of Bangladesh. *American Journal of Life Sciences*.1 (4): 155-164.
39. Rahman, A.H.M.M. 2013g. Systematic studies on Cucurbitaceae family at Rajshahi division, Bangladesh. *Plant*.1(2): 10-15.
40. Rahman, A.H.M.M. 2014. Angiosperm Flora in the Graveyards of Rajshahi City, Bangladesh. Lambert Academic Publishing AG & CO KG. Germany.
41. Rahman, A.H.M.M. and Khanom, A. 2013. Taxonomic and Ethno-Medicinal Study of Species from Moraceae (Mulberry) Family in Bangladesh Flora. *Research in Plant Sciences*.1(3): 53-57.
42. Rahman, A.H.M.M., Islam A K M R and Hossain, M M. 2013. Taxonomy of Cucurbitaceae: Taxonomic investigation of wild & cultivated cucurbits of Northern parts of Bangladesh. Lambert Academic Publishing AG & CO KG. Germany.
43. Rahman, A.H.M.M. and Gulshana, M.F.A. 2014. Taxonomy and Medicinal Uses on Amaranthaceae Family of Rajshahi, Bangladesh. *Applied Ecology and Environmental Sciences*. 2(2): 54-59.
44. Rahman, A.H.M.M. and Rahman, M.M. 2014. An Enumeration of Angiosperm weeds in the Paddy field of Rajshahi, Bangladesh with emphasis on medicinal Plants. *Journal of Applied Science And Research*. 2(2): 36-42.
45. Rahman, A.H.M.M., Hossain, M. M. and Islam, A.K.M.R. 2014a. Taxonomy and Medicinal Uses of Angiosperm weeds in the wheat field of Rajshahi, Bangladesh. *Frontiers of Biological and Life Sciences*.2(1): 8-11.
46. Rahman, A.H.M.M., Afsana, M.W. and Islam, A.K.M.R. 2014b. Taxonomy and Medicinal Uses on Acanthaceae Family of Rajshahi, Bangladesh. *Journal of Applied Science And Research*. 2(1): 82-93.
47. Rahman, A.H.M.M., Ferdous, Z. and Islam, A. K. M. R. 2014c. A Preliminary Assessment of Angiosperm Flora of Bangladesh Police Academy. *Research in Plant Sciences*. 2(1): 9-15.
48. Rahman, A.H.M.M. and Akter, M. 2013. Taxonomy and Medicinal Uses of Euphorbiaceae (Spurge) Family of Rajshahi, Bangladesh. *Research in Plant Sciences*.1 (3): 74-80.
49. Rahman, A.H.M.M. and Rojonigondha. 2014. Taxonomy and Traditional Medicine Practices on Malvaceae (Mallow Family) of Rajshahi, Bangladesh. *Open Journal of Botany*.1 (2): 19-24.
50. Rahman, M.A. and Uddin, S.B. 1997. Assessment of plant diversity of Sitakunda in Chittagong. *Bangladesh J. Plant Taxon*. 4(1): 17-36.
51. Rahman, M.O. and Alam, M.T. 2013. A taxonomic study on the angiosperm flora of Trishal Upazilla, Mymensingh. *Dhaka Univ. J. Biol. Sci*. 22(1): 63-74.
52. Rahman, M.O., Begum, M. and Ullah, M.W. 2013. Angiosperm Flora of Sadar Upazilla of Munshiganj District, Bangladesh. *Bangladesh J. Plant Taxon*. 20(2): 213-231.
53. Rahman, M.O. and Hassan, M.A. 1995. Angiospermic flora of Bhawal National Park, Gazipur (Bangladesh). *Bangladesh J. Plant Taxon*. 2(1&2): 47-79.
54. Rahman, M.O., Uddin, M.Z., Tutul, E., Begum, M. and Hassan, M.A. 2010. Additions to the Angiospermic Flora of Runcitia Sal Forest, Bangladesh. *Bangladesh J. Plant Taxon*. 17(2): 167-182.